

FIG. 0

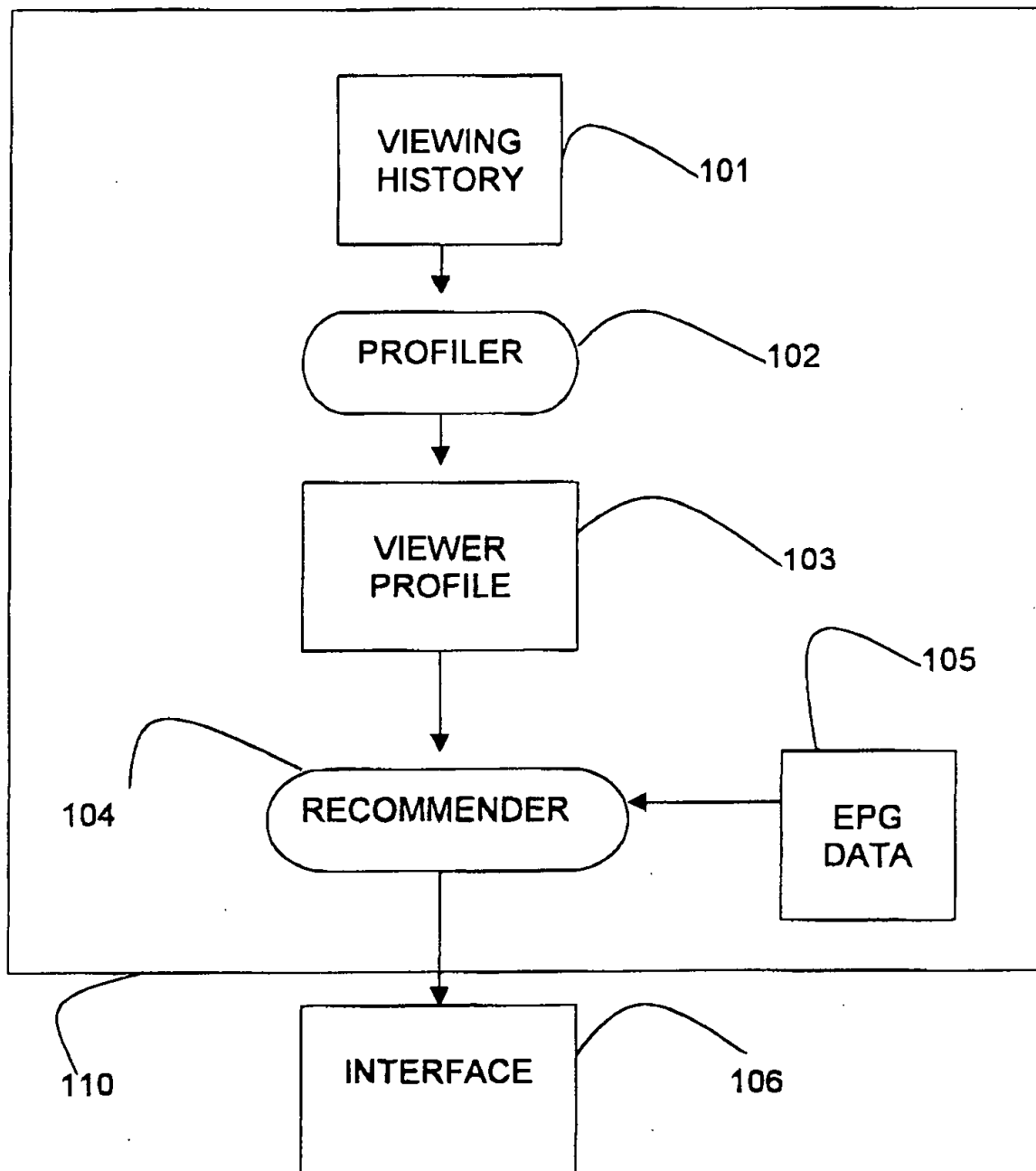


FIG. 1



Table 1. The key fields

Field	Description
\$date	yyyymmdd
\$air_time	hhmm (e.g. some value in the range 0000-2359)
\$station_sign	4 characters (e.g. WABC)
\$title	120 characters (e.g. "Antiques Roadshow")
\$desc	120 characters (e.g. "Skully visits alien spacecraft")
\$genre	20 characters (e.g. "Science Fiction")
\$actors	120 characters (e.g. "John Doe, Jane Doe")
\$directors	120 characters (e.g. "John Hitchcock")
\$hosts	120 characters (e.g. "John Host")
\$producers	120 characters (e.g. "Jane Rich, John Moneybags")
\$writers	120 characters (e.g. "John Poet")

FIG. 3

total programs	55	55
daytime Mon2100	5	0
daytime Mon2200	6	1
daytime Tue2200	4	1
daytime Wed2000	4	0
daytime Wed2200	6	0
station WABC	10	1
station WNBC	30	0
station WNYW	13	0
title 20/20	5	0
title Dateline NBC	11	0
title MLB Playoffs	10	0
title Paid Programming	0	5
genre Animated	0	4
genre Baseball	13	1
genre Comedy	4	8
genre Football	4	0
genre Magazine	18	0
genre News	22	4
genre Reality	4	1
genre Situation	3	5
genre Sports Event	15	2
genre Talk	18	3
desc Ally	6	0
desc If	6	0
desc McBeal	4	0
desc alternate	5	0
desc game	4	0
desc lineup	5	0

FIG. 4

**FIG. 5A**

$$T = k(C+) + k(C-)$$

$$P(C+) = k(C+)/T$$

$$P(C-) = k(C-)/T$$

**FIG. 5B**

$$P(fil|C+) = k(fil|C+)/k(C+)$$

$$P(fil|C-) = k(fil|C-)/k(C-)$$

FIG. 5C

$$P(C+/x) = P(x|C+)P(C+)/P(x)$$

$$P(C-/x) = P(x|C-)P(C-)/P(x)$$

Where

$$P(x) = P(x|C+)P(C+) + P(x|C-)P(C-)$$

$$P(x|C+) = \prod_{i=1}^n P(f_i|C+)^{x_i} (1 - P(f_i|C+))^{1-x_i}$$

n= number of features in profile

$f_i$ = the  $i^{\text{th}}$  feature in the profile

$x = \{0,1\}^n$  is a bit string of length n, where the  $i^{\text{th}}$  bit indicates the presence (1) or absence (0) of feature  $f_i$  in the program